



1

SEQUENCE LISTING

<110> YAROVINSKY, TIMUR

<120> TOPOISOMERASE ACTIVATED OLIGONUCLEOTIDE ADAPTORS AND  
USES THEREFOR

<130> UIA-031.01

<140> 09/871,607

<141> 2001-05-31

<150> 60/208,662

<151> 2000-05-31

<160> 12

<170> PatentIn Ver. 2.1

<210> 1

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 1

taatacgact cactataggg acccttggtg cacca

35

<210> 2

<211> 11

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 2

agggtcccta t

11

<210> 3

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 3

gaagcacatg tctttaatgt c

21

09271607.080601

<400> 7						
atg	cgtgcac	ttttttataa	agatggtaaa	ctctttaccg	ataataat	tttaaatcct 60
gtatc	gagacg	ataatccagc	gtatgaggtt	ttgcaacatg	ttaaaattcc	tactcattta 120
acagat	gttag	tagtatatga	acaaacgtgg	gaggaggcgt	taactagatt	aatttttgtg 180
ggaagt	gatt	caaaaggacg	tagacaatac	ttttacggaa	aaatgcatgt	acagaatcgc 240
aacgcta	aaaa	gagatcgtat	ttttgttaga	gtatataacg	ttatgaaacg	aattaattgt 300
tttataa	caaca	aaaatatataa	gaaatcgctc	acagattcca	attatcagtt	ggcggttttt 360
atgtta	aatgg	aaactatg	ttttattaga	tttggtaaaa	tgaaatatct	taaggagaat 420
gaaacag	tag	ggttattaac	actaaaaaat	aaacacatag	aaataagtcc	cgatgaaata 480
gttatca	agt	ttgtaggaaa	ggacaaagtt	tcacatgaat	ttgttggtca	taagtctaat 540
agactata	tata	agccgctatt	gaaactgacg	gatgattcta	gtcccgaaga	atttctgttc 600
aacaaa	actaa	gtgaacgaaa	ggtatatgaa	tgtatcaaac	agtttggtat	tagaatcaag 660
gatctcc	ga	cgtatggagt	caattatagc	tttttatata	atttttggac	aaatgtaaac 720
tccatat	ctc	ctcttcctc	accaaaaaag	ttaatagcgt	taactatcaa	acaaactgct 780
gaagt	ggtag	gtcatactcc	atcaatttca	aaaagagctt	atatggcaac	gactatttta 840
gaaat	ggtaa	aggataaaaa	tttttttagat	gtagtatcta	aaactacgtt	cgatgaattc 900

ctatctatag tcgtagatca cgttaaatca tctacggatg gatga

945

&lt;210&gt; 8

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Vaccinia virus

&lt;400&gt; 8

Met Arg Ala Leu Phe Tyr Lys Asp Gly Lys Leu Phe Thr Asp Asn Asn  
 1 5 10 15

Phe Leu Asn Pro Val Ser Asp Asp Asn Pro Ala Tyr Glu Val Leu Gln  
 20 25 30

His Val Lys Ile Pro Thr His Leu Thr Asp Val Val Val Tyr Glu Gln  
 35 40 45

Thr Trp Glu Glu Ala Leu Thr Arg Leu Ile Phe Val Gly Ser Asp Ser  
 50 55 60

Lys Gly Arg Arg Gln Tyr Phe Tyr Gly Lys Met His Val Gln Asn Arg  
 65 70 75 80

Asn Ala Lys Arg Asp Arg Ile Phe Val Arg Val Tyr Asn Val Met Lys  
 85 90 95

Arg Ile Asn Cys Phe Ile Asn Lys Asn Ile Lys Lys Ser Ser Thr Asp  
 100 105 110

Ser Asn Tyr Gln Leu Ala Val Phe Met Leu Met Glu Thr Met Phe Phe  
 115 120 125

Ile Arg Phe Gly Lys Met Lys Tyr Leu Lys Glu Asn Glu Thr Val Gly  
 130 135 140

Leu Leu Thr Leu Lys Asn Lys His Ile Glu Ile Ser Pro Asp Glu Ile  
 145 150 155 160

Val Ile Lys Phe Val Gly Lys Asp Lys Val Ser His Glu Phe Val Val  
 165 170 175

His Lys Ser Asn Arg Leu Tyr Lys Pro Leu Leu Lys Leu Thr Asp Asp  
 180 185 190

Ser Ser Pro Glu Glu Phe Leu Phe Asn Lys Leu Ser Glu Arg Lys Val  
 195 200 205

Tyr Glu Cys Ile Lys Gln Phe Gly Ile Arg Ile Lys Asp Leu Arg Thr  
 210 215 220

Tyr Gly Val Asn Tyr Thr Phe Leu Tyr Asn Phe Trp Thr Asn Val Lys  
 225 230 235 240

Ser Ile Ser Pro Leu Pro Ser Pro Lys Lys Leu Ile Ala Leu Thr Ile  
 245 250 255

09871507.080604

Lys Gln Thr Ala Glu Val Val Gly His Thr Pro Ser Ile Ser Lys Arg  
 260 265 270

Ala Tyr Met Ala Thr Thr Ile Leu Glu Met Val Lys Asp Lys Asn Phe  
 275 280 285

Leu Asp Val Val Ser Lys Thr Thr Phe Asp Glu Phe Leu Ser Ile Val  
 290 295 300

Val Asp His Val Lys Ser Ser Thr Asp Gly  
 305 310

<210> 9

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: T7 phage promoter

<400> 9

taatacgact cactata

17

<210> 10

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: T3 phage promoter

<400> 10

ttattaaccc tcactaaagg gaag

24

<210> 11

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: SP6 phage promoter

<400> 11

atttaggtga cactatagaa tac

23

<210> 12

<211> 46

<212> DNA

<213> Artificial Sequence

09874507-030604

<220>

<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 12

taatacgact cactataggg acccttggtg caccaagggt ccctat

46

09374607-000001